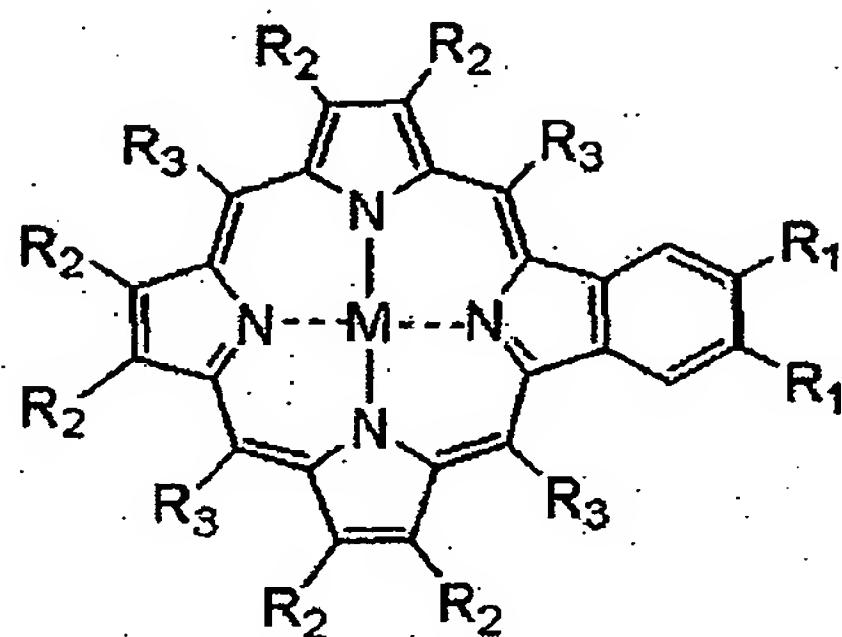


## ABSTRACT

A field effect transistor is provided which comprises an organic semiconductor layer comprising a compound having a monobenzoporphyrin skeleton represented by the general formula (1):



wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of a hydrogen atom, a halogen atom, 10 a hydroxyl group, and alkyl, alkenyl, oxyalkyl, thioalkyl, alkyl ester and aryl groups each having 1 to 12 carbon atoms with the proviso that adjacent R<sub>1</sub> may be the same or different and adjacent R<sub>2</sub> may be the same or different and that at least two of R<sub>2</sub> are 15 not hydrogen atoms; R<sub>3</sub> is a hydrogen atom or an aryl group; and M denotes two hydrogen atoms, a metal atom or a metal oxide.